# Gold Star Audio

# **SERVICE MANUAL**

# for service technician





STEREO CASSETTE RECORDER with AM/FM RADIO
TSR-800 (FM/SW/MW/LW)
TSR-805 (FM/SW<sub>2</sub>/SW<sub>1</sub>/MW)

#### **SPECIFICATIONS**

This specifications may be changed for improvement of performance without notice.

	I his specifications may be changed for improveme
	Radio section
	Circuit system
	` ntenna
ı	FM/SW2/SW Telescopic ant.
	SW1/MW/LW Built-in ferrite bar ant.
	Frequency range
	FM
	SW2
	SW
1	SW1
I	MW
I	LW
ı	Intermediate freq.
	AM
	FM
I	Sensitivity Max (Usable)
I	FM
I	SW2, SW 25(35) dB
I	SW1
	MW
I	LW
ĺ	Signal to noise ratio
İ	FM
I	SW2, SW
I	SW1 45 dB
١	MW
I	

LW
Cassette section
Circuit system 4 track 2ch. stereo Recording system AC Bias (70 kHz) Erasing system AC Erase Tape speed 4.75 cm/sec F.F. & REW time90 sec Wow & Flutter0.04% (WRMS) Frequency responseP/B: 100-12000 Hz REC/PB: 100-1000) Hz Signal to Noise ratioP/B: 50 dB REC/PB: 45 dB Separation40 dB
,
General         Power output (10% T.H.D.)       .6.2W+6.2W         Semiconductors       .8IC's, 34TR's, 34Dodes, 10LED's         Power consumptions       .18W         Speakers       .Tweeter 5cm 4Ωx2         Woofer 20cm 4Ωx2         Weight       .9 Kg         Dimensions       .627(W)x358(H)x14(D) mm

#### To the service technician

The service manual contains detailed service information for Model TSR-800 and TSR-805 with the exception of radio band function.

The basic difference between Model TSR-800 and TSR-805 is radio band.

For example:

Model TSR-800 has the functions of FM, SW, MW and LW.

Model TSR-805 has the functions of FM, SW1, SW2, and MW.

Illustration of the model appears on front cover.

Please give attention to next caution.

The followings are the safety servicing guidelines for all audio amplifiers and radio receivers.

Service work should be performed only after you are familiar with all of the following safety guide.

To do otherwise increases the rish of potential hazards and injury to the user.

#### Safety guide

- Be sure that all components are positioned in such a way to avoid possibility of adjacent components shorts. This is especially important on those chassis which are transported to and from the repair shop.
- 2. Always replace all protective devices such as insulators and barriers after working on a receiver.
- 3. Check for frayed insulation on wires including the AC-cord. Also check across-the-line-components for damage and replace if necessary.
- 4. All fuses and certain resistors and capacitors which are of the flameproof type must be replaced with exact same types to prevent potential fire hazard.
- 5. After re-assembly of the set always perform an AC-leakage test on the exposed metallic parts of the cabinet such as the knobs, antenna terminal, etc. to be sure the set is safe to operate without danger of electrical shock.

#### To order repair parts

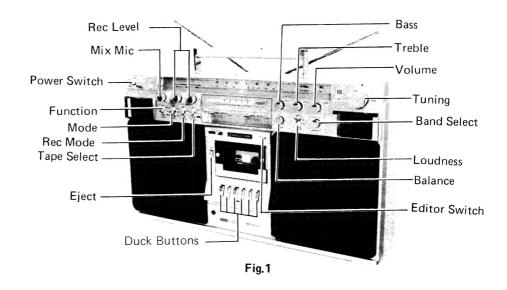
part orders must contain;

- 1. Model Number found on front cover in this service manual.
- 2. Part Number, Description and Quantity.

#### **CONTENTS**

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#### **OPERATING CONTROLS**



#### **DISASSEMBLY INSTRUCTIONS**

#### 1. To remove front case

- (1) Please pull out the round volume knobs such as tuning. Bass, treble etc.(see F;g.1) and open the cassette door with pressing the eject button.(see Fig.2)
- (2) Remove seven screws (a) and take out the front case (see Fig.3) At this time, remove connectors for serviceable work. (see Fig.4)



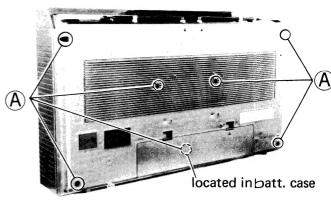
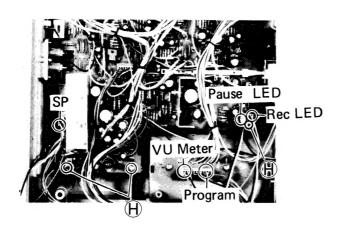


Fig.2

Fig.3



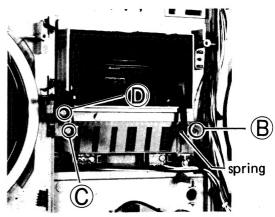
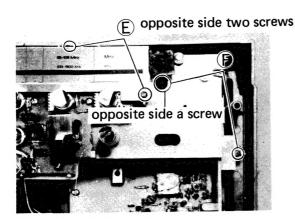


Fig.4

Fig.5

- 2. To service cassette door (see Fig.5)
  - (1) Remove screw (B) and spring
  - (2) Remove screw © and D
- 3. To remove scale plate
  - (1) Remove screw (E) (five) and move pointer to the groove to remove easily scale plate.
  - (2) To re-assemble toughly it, first of all, you must fix screw (E) as shown in Fig.7.
  - (3) Please make sure of it if LED and LED hall are agree with each other or not.



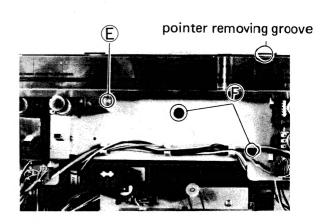
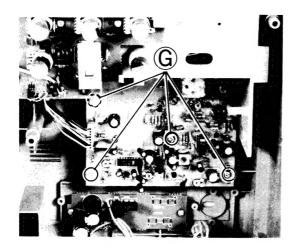


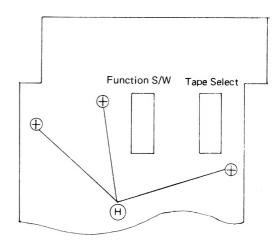
Fig. 6

Fig. 7

#### 4. To remove RF & AF PWB

- (1) Remove screw (F) (five). (see Fig.6.7)
- (2) Remove serew (G) (see Fig.8) and (H) (six) as shown in Fig 4 & Fig. 9.





to

to

Fig. 8

Fig. 9

(3) When re-assembling the chassis if Rec S/W Bracket is in touched with DECK AY, pull out the Rec S/W Bracket in direction of an arrow. (See Fig. 10)

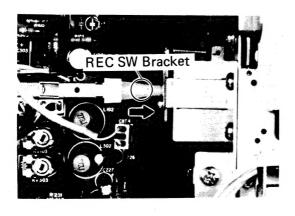


Fig. 10

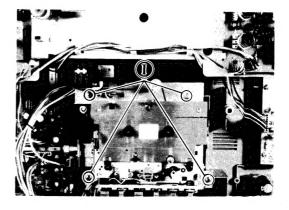
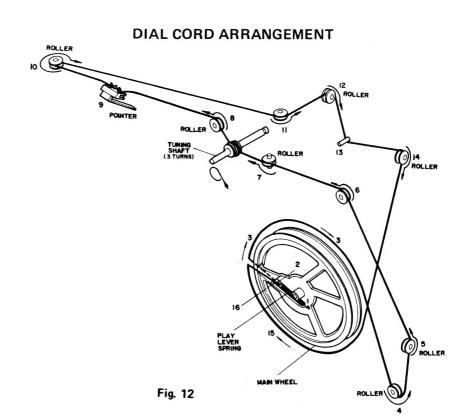


Fig. 11

#### 5. To remove Deck Mechanism

Remove screw () (see Fig.11)



Set the varicon to minimum frequency and string the cord by following the number sequence order as shown in Fig.12.

#### **ALIGNMENT INSTRUCTIONS**

This cassette radio has been aligned at the factory and normally will not require further adjustment. As a result, it is not recommended that any attempt is made to modificate any circuit. If any parts are replaced or if anyone tampers with the adjustment, realignment may be necessay.

#### Test equipment required

- 1. AM/FM signal generator
- 2. IF sweep generator (10.7 MHz) for FM
- 3. IF sweep generator (455 kHz or 465 kHz) for AM
- 4. Standard dummy antenna for FM
- 5. Standard loop antenna for AM
- 6. VTVM

diam'r.

- 7. Oscilloscope
- 8. Frequency counter
- 9. Audio frequency oscillator
- 10. Test tapes
  - a) MTT-114 (10kHz)
  - b) MTT-112B (1kHz)
  - c) MTT-501 (Blank tape)

#### RADIO ALIGNMENT

#### Adjustment and test points

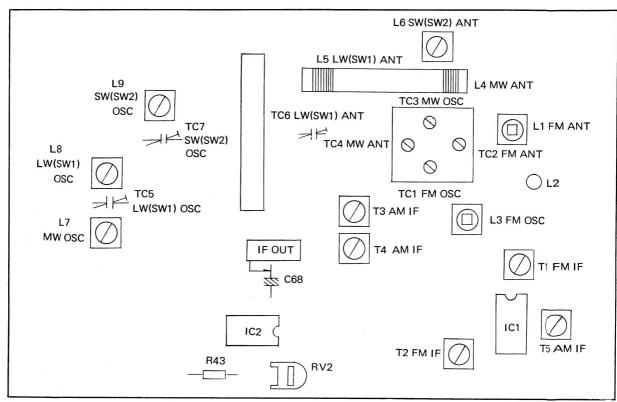
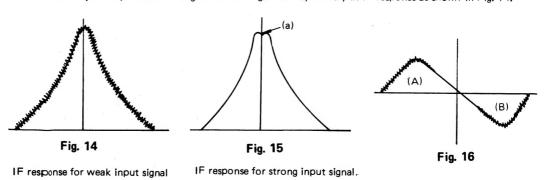


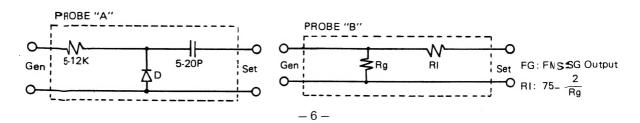
Fig. 13 RF PCB

Note 1.: Adjust T3, T4 and T5 to get maximum gain and symmetry in IF response as shonw in Fig. 14.



After adjust IF response for weak input signal, supply strong input signal and also adjust T3, T4 and T5 to makepart (a) flat as shown in Fig. 15.

Note 2.: Adjust T1 so that part (A) and part (B) are symmetrical on either side of vertical line and adjust T2 for maximum noise on s-curve line.



#### **AM Alignment Chart**

		Instrument &		Test Po	int	D		Adjustment	
Step	Item		Frequency	Input Terminal	Output An		Dummy Ant. Dial Setting		Purpose
1	AM-IF		AM IF sweep generator and oscilloscope or AM IF genescope	AM IF Input	Detector output (C68)	Generator output Probe "A"	Tuning-Gang counter-clockwise (Lowest freq.)	T3 T4 T5	Adjust for the scope pattern with specified marker (IF freq.) as illustrated in fig. 14 (Note 1)
2	MW	а	AM SSG 515kHz (400Hz, 30% Mod) and VTVM	MW wave magnet ant.	Speaker output or detector output	None	Tuning-Gang counter-clockwise (Lowest freq.)	L7	Adjust for maximum gain.
	Oscilla- tor	b	AM SSG 1650kHz (400Hz, 30% Mod) and VTVM				Tuning-Gang clock wise (Highest freq.)	тсз	
		С	Repeat the above item 2-0	a), (b) for minimur	n change.				
3	MW	a	AM SSG 600kHz (400Hz, 30% Mod) and VTVM	MW wave magnet ant.	Speaker output terminal or detector output	None	Tune to signal	L4 MW ant. coil	Adjust for maximum gain.
	Track- ing	b	AM SSG 1400kHz (400Hz, 30% Mod) and VTVM					TC4	
		С	Repeat the above item 3-(	a), (b) for minimum	change			'	
4	LW	a	AM SSG 150kHz (2,3MHz) (400Hz, 30% Mod) and VTVM	LW(SW1) wave magnet	Speaker output terminal	None	Tuning gang fully counter clockwise (Lowest fre.)	L8	Adjust for maximum
	(SW1) OSC	b	AM SSG 350kHz (7.0MHz) (400Hz, 30% Mod) and VTVM		or detector output		Tuning gang fully clockwise (Highest fre.)	TC5	gain.
	1	С	Repeat the above item 4-(a	a), (b) for minimum	change				

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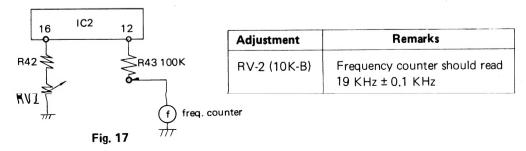
AM Alignment Chart (Cont'd)

			Instrument &	Test P	oint	_				
Step	Item		Frequency	Input Terminal	Output Terminal	Dummy Ant.	Dial Setting	Adjustment point	Purpose	
5	LW	а	AM SSG 160kHz (2.7MHz) (400Hz, 30% Mod) and VTVM	LW(SW1)	Speaker output	None or	Tune to signal	L5	Adjust for maximum	
	(SW1) Tracking	b	AM SSG 330kHz (6.3MHz) (400Hz, 30% Mod) and VTVM	wave magnet terminal or detecto output	or detector			TC6	gain.	
		С	Repeat the above item 5-(a), (b) for minimum change.							
6	sw	а	AM SSG 6MHz (7MHz) (400Hz, 30% Mod) and VTVM	Ant. intput	Sp. output ter, or detector output	SW dummy ant (Probe "C"))	Tuning gang fully counter clockwise (Lowest fre.)	L9	Adjust for maximum	
	(SW2) OSC	b	AM SSG 18MHz (22MHz) (400Hz, 30% Mod) and VTVM				Tuning gang fully clockwise (Highest fre.)	ТС7	gain.	
		С	Repeat the above item 6-(	(a), (b) for minimun	n change.					
7	sw	а	(400Hz, 30% Mod)	Ant.	Speaker output	SW dummy		L6		
	(SW2) Track- ing	b	AM SSG 16MHz (20MHz) (400Hz, 30% Mod) and VTVM	input	ter. or detector output	ant. (Probe "C")	Tune to signal		Adjust for maximum gain.	
		С	Repeat the above item 7-0	a), (b) for minimun	n change.					

#### FM Alignment Chart

				Test	Point	_			
Step	Item		Instruments & Frequency	Input Terminal	Output Terminal	Dummy Ant.	Dia Setting	Adjustment Point	Purpose
1	FM-IF		FM IF Sweep Generator and oscilloscope or FM IF generating	FM-IF Input	FM Det Output (C68)	Generator Output probe "A"	Tuning Gang fully counter- clockwise (Lowest Fre.)	T1	Adjust for scope Pattern with specified marker (10.7MHz) as illustrated in
	IF-Gain	_1	, generating					T2	Fig. 16 (note 2)
2	FM Oscila-	а	FM SSG 87 MHz (400Hz 22.5kHz Deviation) and VTVM	Ant. Input	Speaker Output Terminal	Gernator Output Probe "B"	Tuning Gang fully counter- clock wise (Lowest fre.)	L3	Adjust for maximum gain.
	tor	b	FM SSG 109MHz (400Hz, 22.5kHz Deviation) and VTVM	Ant. Input	Speaker Output Terminal	Generator Output Probe "B"	Tuning Gang fully clockwise (Highest fre.)	TC1	Adjust for maximum gain.
		С	Repeat the above item 2	2-(a), (b) for minim	ım change.				
		а	FM SSG 90MHz (400Hz, 22.5kHz (Deviation) and VTVM	Ant. Input Terminal	Speaker Output Terminal	Generator Output Probe ''B''	Tune to signal	L1	Adjust for maximum gain.
3	FM Tracking	ь	FM SSG 106MHz (400Hz, 22.5kHz Deviation) and VTVM	Ant. Input Terminal	Speaker Output Terminal	Generator Output Probe "B"	Tune to signal	TC2	Adjust for maximum gain
		С	Repeat the above item 3	3-(a), (b) for minim	ım change.				

#### FM Multiplex Alignment



#### CASSETTE ALIGNMENT

#### Tape head and capstan cleaning

- 1. Periodically clean the tape head, capstan drive shaft and other tape handling surfaces to insure proper tape handling and optimum frequency response.
- 2. Use a cotton swab lipped in head cleaner or denatured alcohol to clean all tape handling surfaces. Wipe dry.

#### Tape head demagnetization

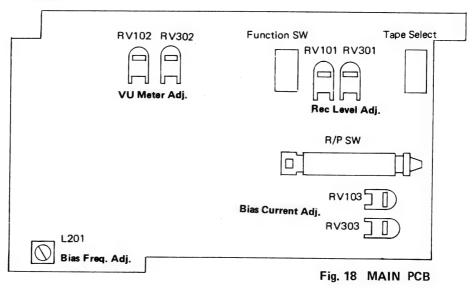
When servicing tape unit, do not use magnetized screwdrivers or wrenches near the tape head since they can magnetize the head.

A magnetized head will result in loss of high frequency response and increased noise.

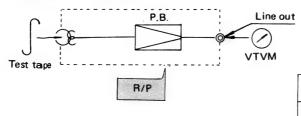
#### Head adjustment

Head adjustment is normally required when the head is replaced or for cases of cross-talk and poor high frequency response.

#### Adjustment points

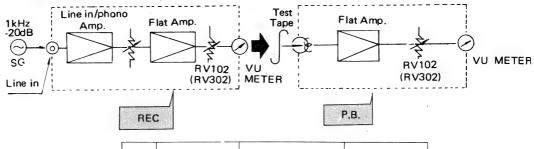


#### **AZIMUTH ADJUSTMENT**



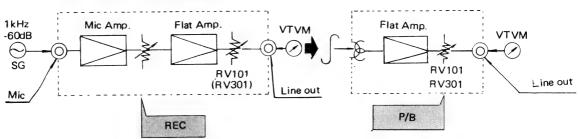
Input	Adjust for	Adjustment		
MTT-114 (10kHz)	Maximum	Azimuth adjusting screw		

#### **VU METER ADJUSTMENT**



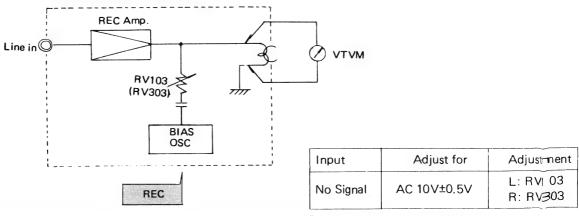
NO.	Input	Adjustment	
1	1kHz –20dB	VU METER:0	L: RV102 R: RV302
2	MTT-112B (1kHz)	VU METER: +3	L: RV102 R: RV302

#### **REC LEVEL ADJUSTMENT**



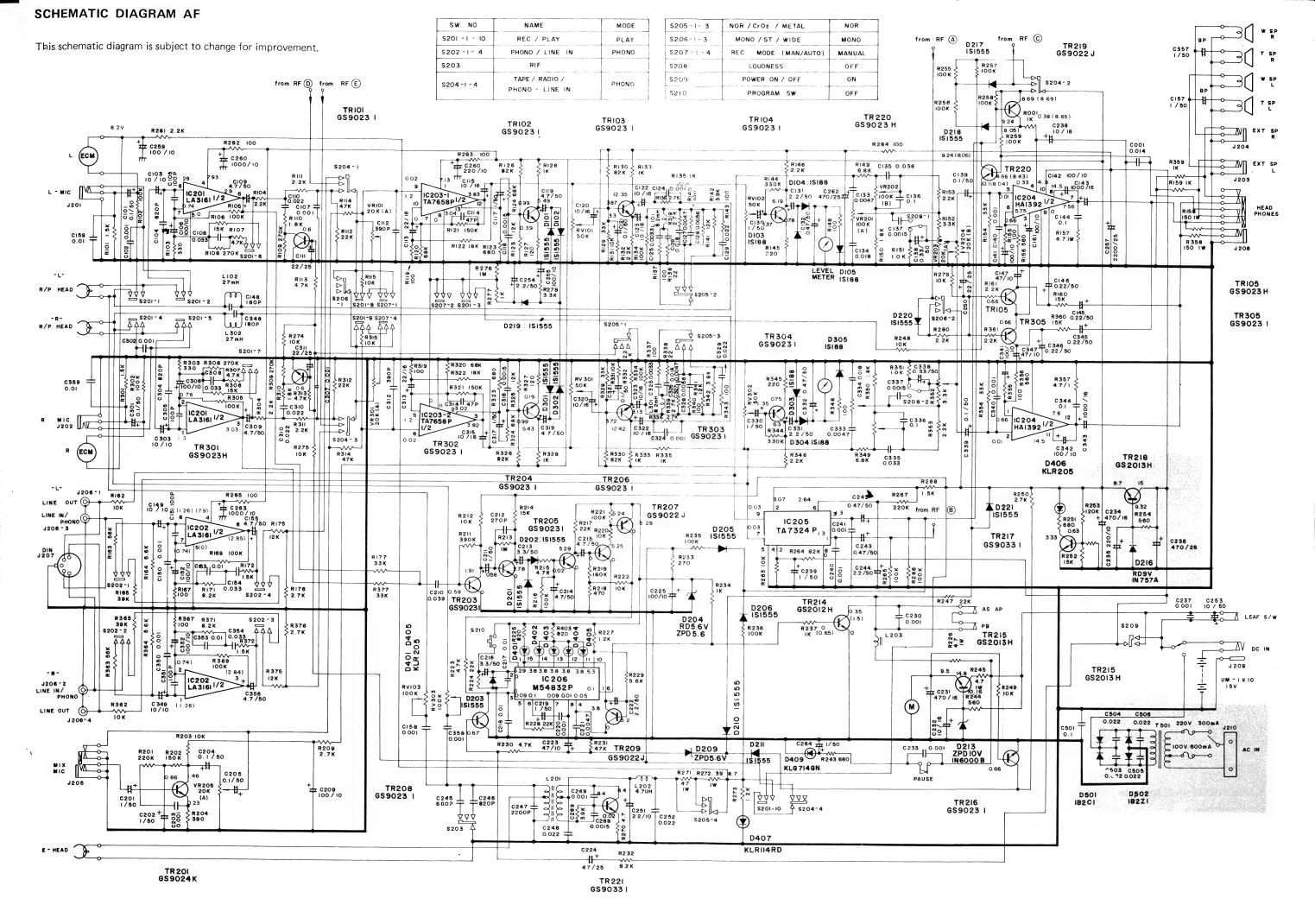
NO.	Input	Adjust for	Adjustment	Remark
1 (REC/PB)	1kHz -60dB	А	L: RV101 R: RV301	REC MODE: AUTO TAPE SEL.: NOR
2 (P/B)	MTT-112B (1kHz)	Lower about 4dB than A	Confirm	11

#### **BIAS CURRENT ADJUSTMENT**

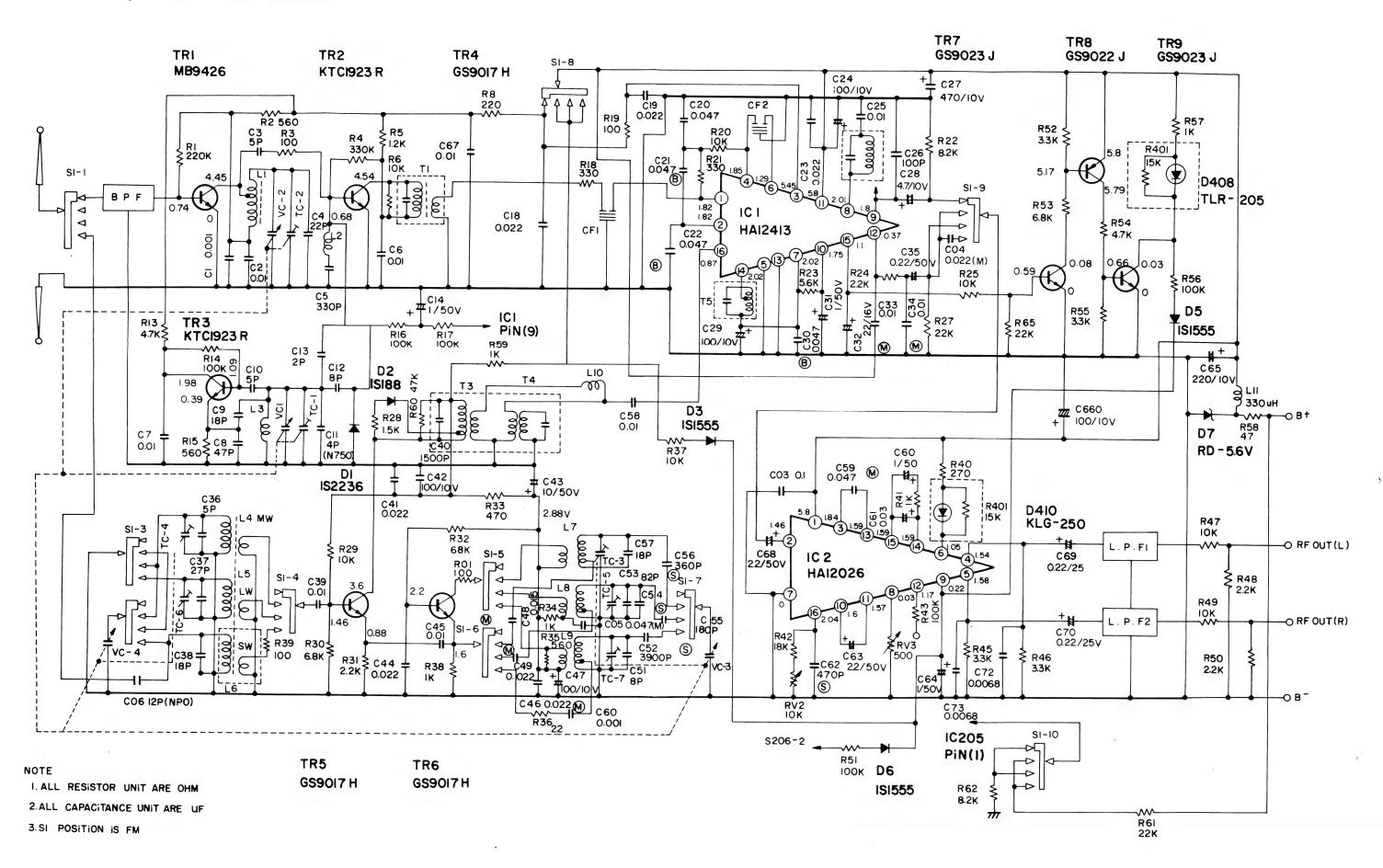


<sup>\*</sup> Tape select : Normal position

# BIAS FREQUENCY ADJUSTMENT FREQ. COUNTER Input Adjust for Adjustment No. signal 70±3kHz L201 \* R.I.F.S.W: "2" position

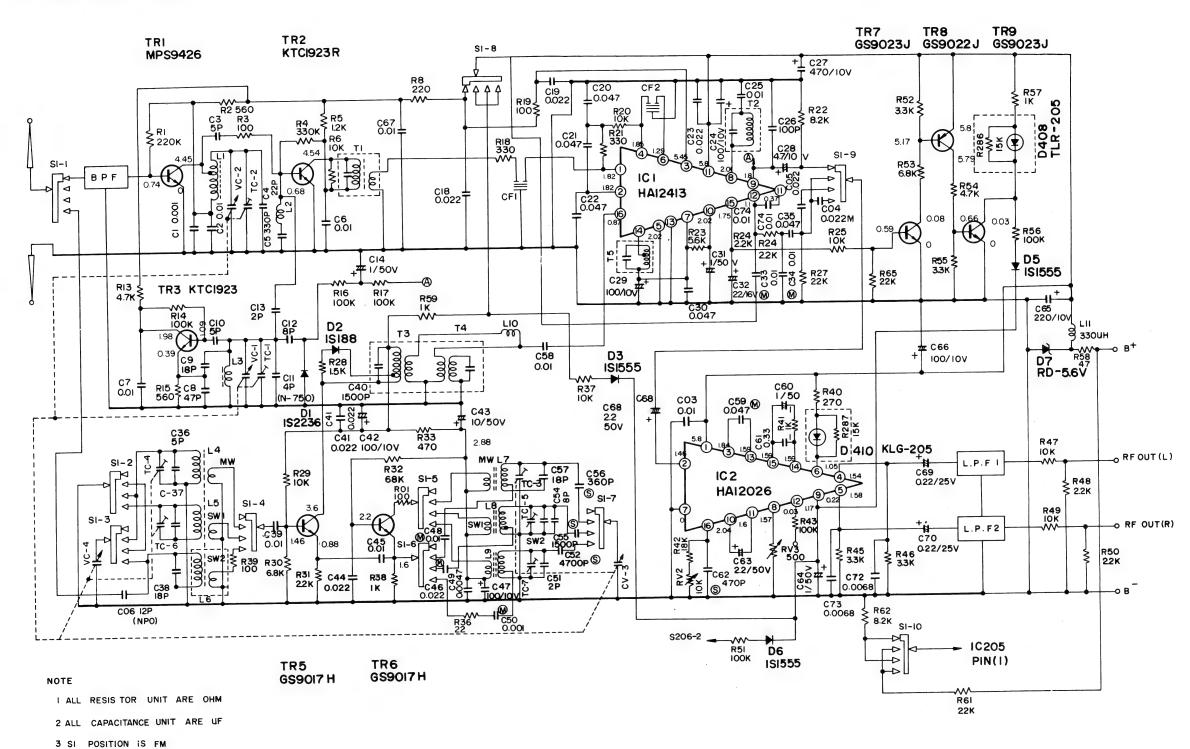


This schematic diagram is subject to change for improvement.



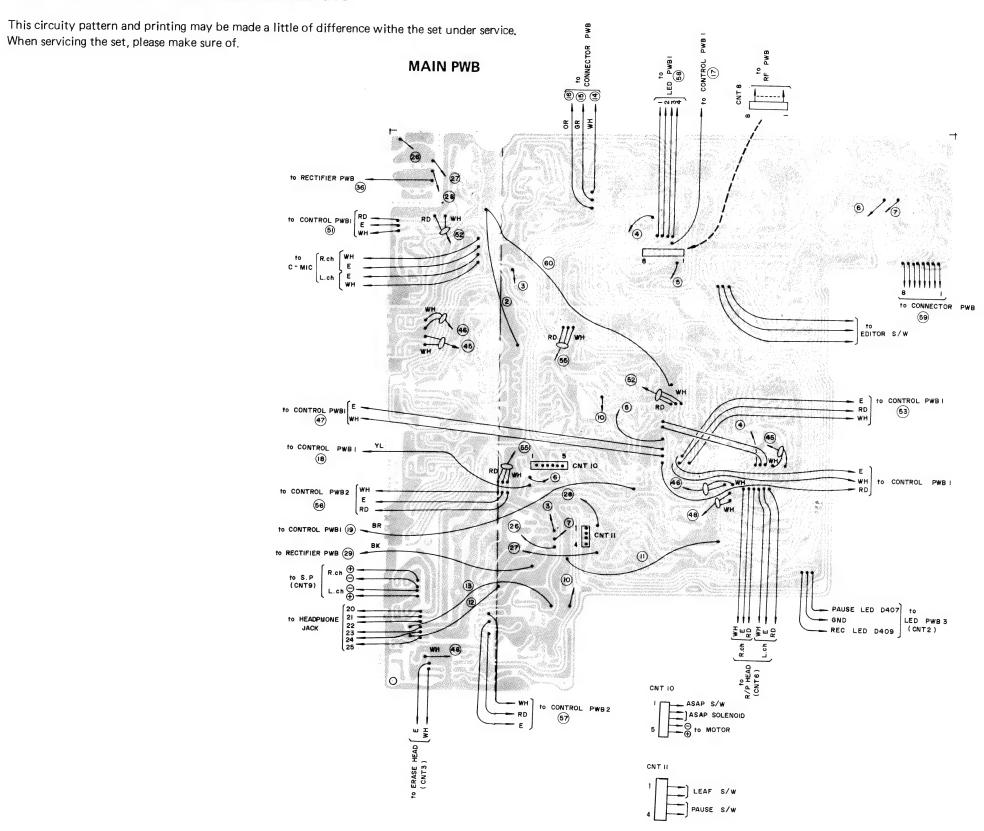
#### SCHEMATIC DIAGRAM RF (TSR-805)

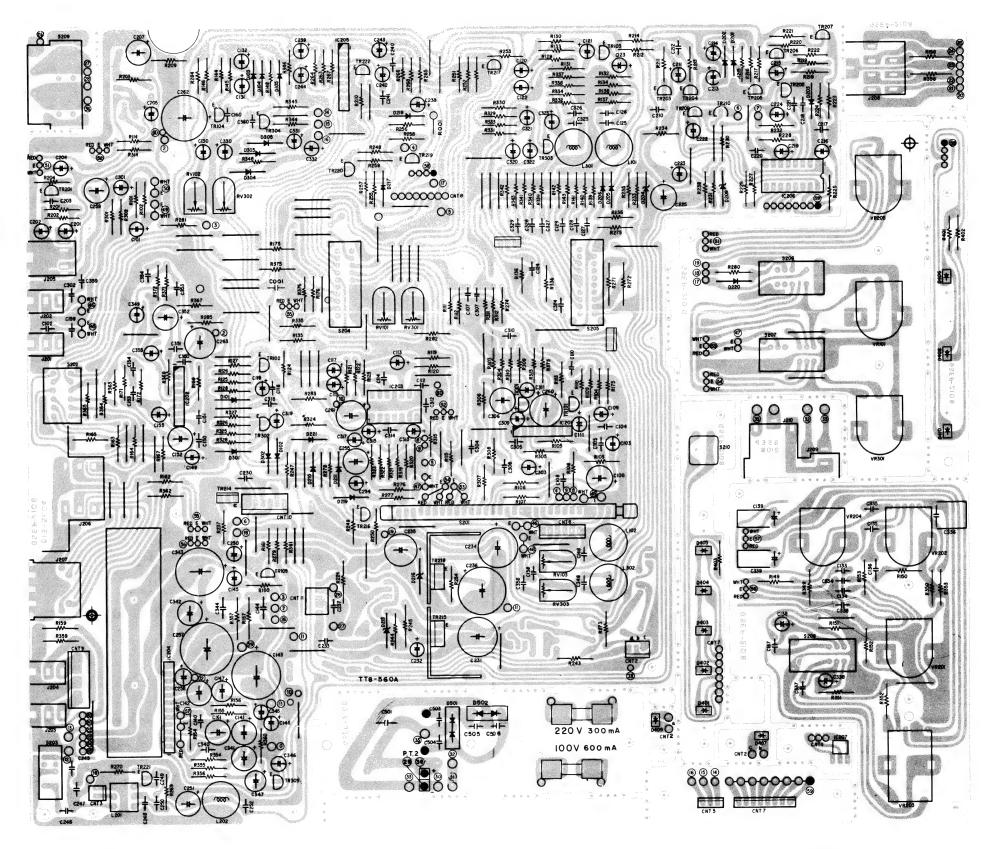
This schematic diagram is subject to change for improvement.



# **ELECTRICAL PARTS LOCATIONS AND WIRING**

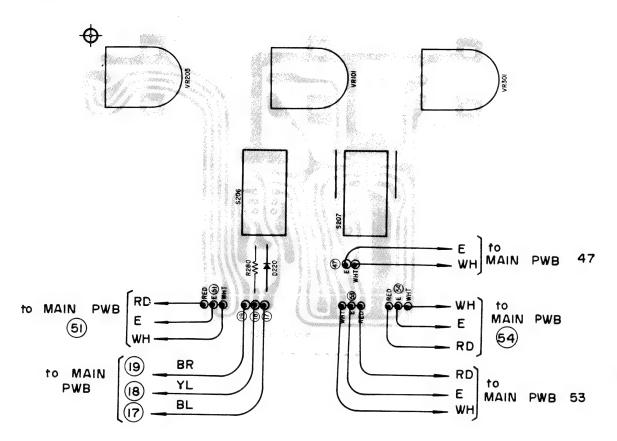
When servicing the set, please make sure of.



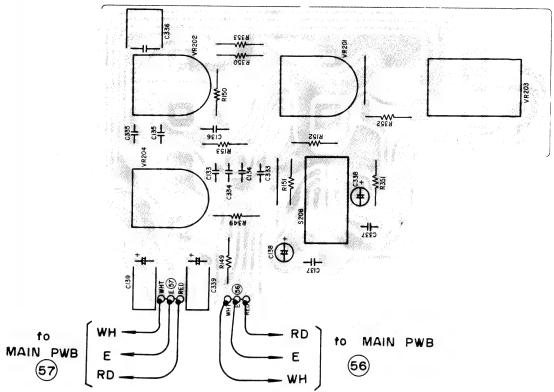


**– 22 –** 

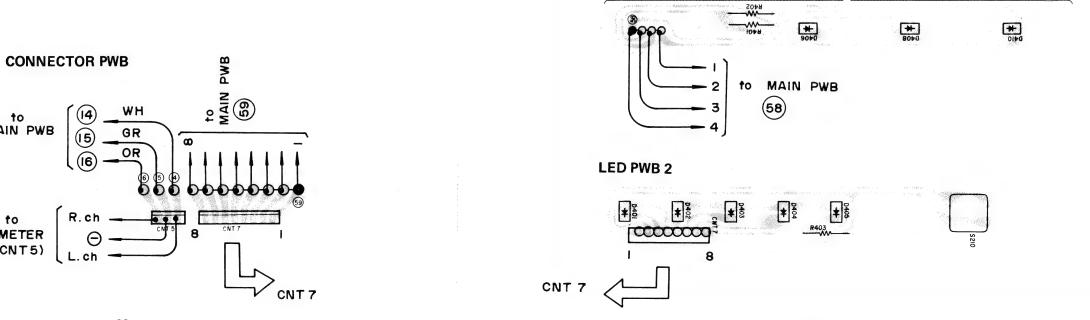
# **CONTROL PWB 1**



# **CONTROL PWB 2**

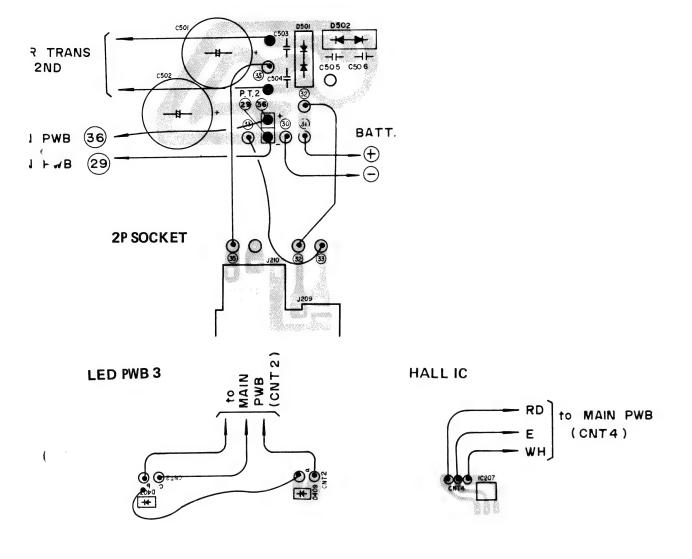


# LED PWB 1

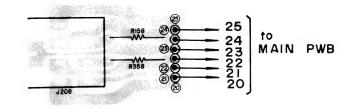


to METER (CNT5)

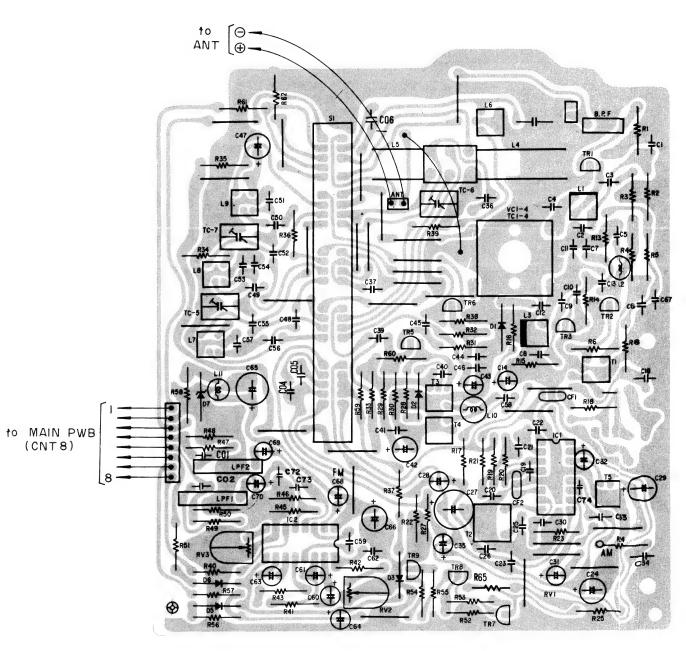
# RECTIFIER PWB



# **HEADPHONE JACK**



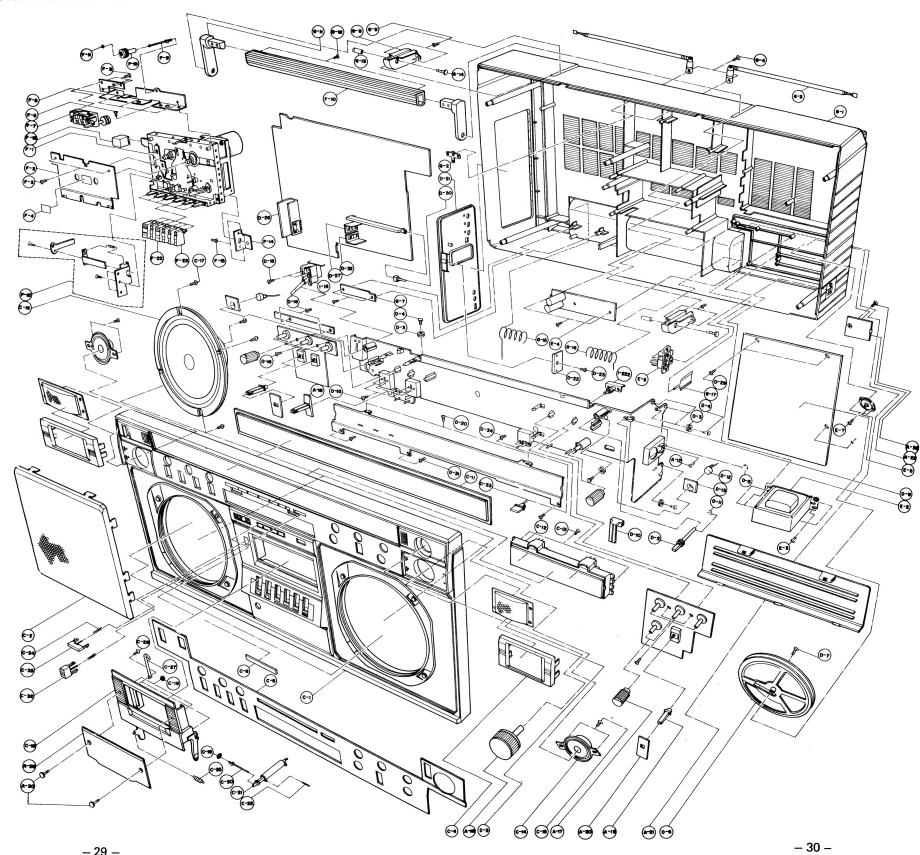
# **RF PWB**



#### **ELECTRICAL SERVICE PARTS LIST**

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
INTEGRATED C	IRCUITS			<sup>1</sup> 665-840A	TR, KTC 9013AH
IC1	668-161A	IC, HA12413	TR217	662-020B	TR, MPS 9418AJ
IC2	668-618A	IC, HA12026	TR218	664-601B	TR, KTD-880Y
IC201	668N063A	IC, LA3161	TR219	(662N039D	TR, MPS 9461AJ
IC202	668N063A	IC, LA3161		665-841A	TR, KTC 9012AH
IC203	668-622A	IC, TA7658P	TR220	r662N033D	TR, MPS 9411AJ
IC204	668-625A	IC, HA1392		665-840A	TR, KTC 9013AH
IC205	668-620A	IC, TA73249	TR221	662-020B	TR, MPS 9418AT
IC206	668-623A	IC, M54832P	TR301,302	(662N033D	TR, MPS 9411AJ
			303, 304, 305	665-840A	TR, KTC 9013AH
TRANSISTORS A	ND DIODES		D1	654-418A	DIODE, 1S2236
TR1	662-601A	TR, MPS426B	D2	651-001C	DIODE, AM 1K60
TR2,3	665-819A	TR, KTC 1923-R	D3, 5, 6	652T605B	DIODE, 1S2472
TR5,6	662-007D	TR, MPS 9604H	D7	654-608D	DIODE, ZPD 5.6
			D101, 102	652T605B	DIODE, 1S2472
TR7	∫662N033D	TR, MPS 9411AJ	D103, 104 105	652-001C	DIODE, AM1K60
	<sup>1</sup> 665-840A	TR, KTC 9013AH	D201, 202, 203	652T605B	DIODE, 1S2472
TR8	5662N039D	TR, MPS 9461AJ	D204	654-608D	DIODE, ZPD 5.6
	l665-841A	TR, KTC 9012AH	D205, 206	652T605B	DIODE, 1S2472
TR9	J662N033D	TR, MPS 9411AJ	D209	654-608D	DIODE, ZPD 5.6
	<sup>1</sup> 665-840A	TR, KTC 9013AH	D210, 211	652T605B	DIODE, 1S2472
TR101-105	662N033D	TR, MPS 9411AJ	D213	654-612B	DIODE, ZPD10
	(665-840A	TR, KTC 9013AH	D216	654-623F	DIODE, UZ9.18
TR201	662-026B	TR, MPS 9633B	D217	652T605B	DIODE, 1S2472
TR203, 204	∫662N033D	TR, MPS 9411AJ	D218, 219,	652T-605B	DIODE, 1S2472
	<sup>1</sup> 665-840A	TR, KTC 9013AH	220, 221	0021 0008	DIODE, 132472
TR207	[662N039D	TR, MPS 9461AJ	D301, 302	652T605B	DIODE, 1S2472
İ	1665-841A	TR, KTC 9012AH	D303, 304, 305	651-001C	DIODE, AM1K60
TR208	∫662N033D	TR, MPS 9411AJ	D401-406	653-618A	LED, TLR-205
	<sup>1</sup> 665-840A	TR, KTC 9013AH	D407	653-022A	LED, KLR114
TR209	662N039D	TR, MPS 9416AJ	D408	653-618A	LED, KLR114 LED, TLR-205
	(665-841A	TR, KTC 9012AH	D409	653-023A	LED, TLR-205
TR214	662N018B	TR, MJE 9400	D410	653-618B	
TR215	664-601B	TR, KTD-880Y	D501	652-021C	LED, KLG205 DIODE, MI-151
TR216	<sub>J</sub> 662N033D	TR, MPS 9411AJ	D502	652-021D	
	1			002-0210	DIODE, MI-151R

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION	
COILS AND TRA	NSFORMERS		S206	556N053A	S/W, SLE 62301-MONO/ST/WIDE	
L1	635-020E	COIL, FM OSC	S207	556-615A	S/W, SLE 64215-MANUAL/AUTO	
L2	635-602A	COIL, FM RF	S208	556N052B	S/W, SLE 622-LOUDNESS	
L3	635-003B	COIL, FM OSC	S209	556-612C	S/W, HTW3405-01-2105-01-POWER	
L4,5	∫632-042B	COIL, MW/LW ANT (FOR TSR-800)	S210	558-013A	S/W, KHC10902-PROGRAM	
	े632-042A	COIL, MW/SW1 ANT (FOR TSR-805)	RV2	613-021E	VR, SEMI-FIXED 10KB	
L6	634-020F	COIL, SW ANT (FOR TSR-800)	RV3	613-021A	VR, SEMI-FIXED 500B	
	<sup>1</sup> 634-020D	COIL, SW2 ANT (FOR TSR-805)	RV101, 301	613-021G	VR, SEMI-FIXED 50KB	
L7	634-015C	COIL, MW OSC	RV102, 302	613-021G	VR, SEMI-FIXED 50KB	
L8	∫634-037F	COIL, LW OSC (FOR TSR-800)	RV103, 303	613-021H	VR, SEMI-FIXED 100KB	
	634-020B	COIL, SW1 OSC (FOR TSR-805)	VR101, 301	611-639A	VR, 20KA-REC LEVEL	
L9	∫ 634-020E	COIL, SW OSC (FRO TSR-800)	VR201	611-640A	VR, 100KA-TREBLE	
	े 634-020C	COIL, SW2 OSC (FOR TSR-805)	VR202	611-640B	VR, 100KB-BASS	
L10	639-003L	COIL, PADDING 180 µH	VR203	611-641B	VR, 20KA-VOLUME	
L11	636-006D	COIL, CHOKE 300 µH	VR204	611-639B	VR, 20KW-BALANCE	
L101, 301	637-601F	COIL, PEAKING 8.2 mH	VR205	611-639A	VR,20KA-MIXING	
L102, 302	637-005D	COIL, PEAKING 27 mH				
L201	634-036C	COIL, TAPE OSC	MISCELLANEOUS			
L202	639-0031	COIL, PADDING 4.7 μH	LPF1, LPF2	616-009A	FILTER, LOW PASS	
T1	644-018F	TRANS, FM IF	BPF	616-011A	FILTER, BAND PASS	
T2	647-604D	DISCRIMINATOR	CF1, CF2	616-007A	FILTER, CERAMIC	
Т3	644-019D	TRANS, MW IF	VC1-4	622N048E	VARICON, POLY P2Z-22BPT	
T4	644-019G	TRANS, MW IF	TC5	623N023H	TRIMMER, 20P (FOR TSR-800)	
T5	644-039N	TRANS, MW IF		623N023B	TRIMMER, 20P (FOR TSR-805)	
CIMITOLIES AND I			TC6, 7, 8	623N023B	TRIMMER, 8P	
SWITCHES AND V	1		J201-204	572-042B	JACK-MIC/EXT. SP	
S201	551-618A	S/W, SRZU 104N-BAND	J205	572-158A	JACK-MIX MIC.	
S201	552-035F	S/W, CL110K-REC/PLAY	J206	573-080B	SOCKET-LINE IN/PHONO	
S202 S203	552N077A	S/W, KSA4251-PHONO/LINE IN	jJ207	573-051B	SOCKET-DIN	
	552-614A	S/W, KSA2317-RIF	J207	573-051B	SOCKET-	
S204, 205	556-614A	S/W, SLL013002-TAPE/RADIO/ PHONO-LINE IN (located on p.c.	J207	573-051B	SOCKET-DIN	
	550,0044	board)				
	552-621A	S/W, SSR243002-TAPE/RADIO/				
		PHONO-LINE IN (located on front				
		case)				

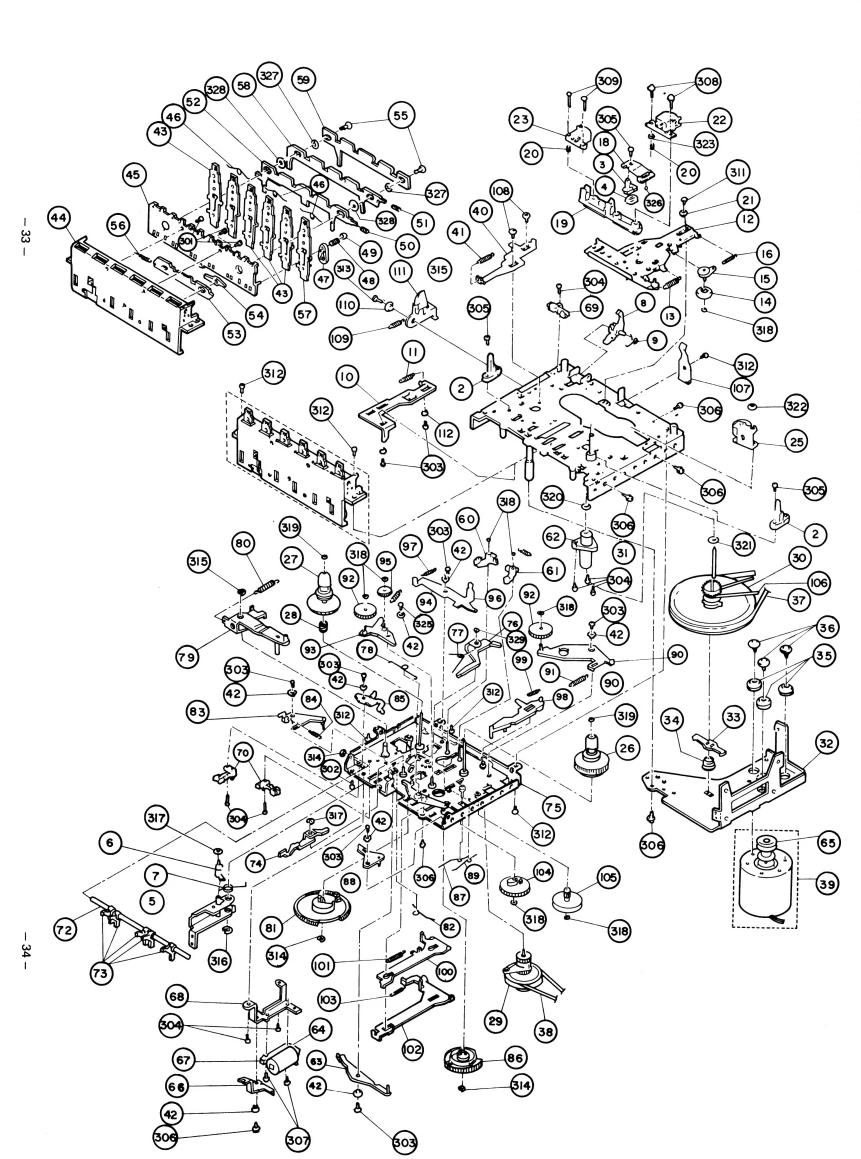


# MECHANICAL PARTS LIST FOR CABINET EXPLODED VIEW

Note: The part-no on this parts list are subject to change.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
A-11	353NO71D	SCREW, SPECIAL	C-24	353N025G	SCREW SPECIAL
A-12	353NO25F	SCREW SPECIAL	C-25	441-005C	SPRING EJECT
A-13	353-052C	SCREWSPECIAL	C-26	324-640A	HOLDER LED AMSS
A-14	353-025G	SPECIAL SCREW	C-27	442-671C	SPRING CASSETTE
A-16	271-159A	KNOB, TUNING	C-28	TOQ1536J	SCREW
A-17	273-657A	KNOB CONTROL	C-29	353NO25G	SCREW SPECIAL
A-18	273-653A	KNOB, SWITCH (A)	C-30	353NO25G	SCREW SPECIAL
A-19	273-654A	KNOB, SWITCH (B)	C-31	572-034A	JACK, PHONE
A-20	221-907A	COVER, KNOB	C-32	273-659A	KNOB, EJECT
A-21	221-432A	COVER BATTERY	C-33	273-658A	KNOB AMSS
A-22	221N410G	COVER VOL SELECTOR	C-34	441-004A	SPRING EJECT AMSS
A-23	217N224A	CASE, BATTERY	C-35	321-779A	BRACKET DOOR CST
A-25	542-028A	MICROPHONE	C-36	445NO25B	SPACER, CLOTH
A-27	681-010A	CORD POWER	C-37	353NO25H	SCREW
A-28	591NO10A	ADAPTER (EXPORT 110V	C-38	354-602D	WASHER
		/220)	D	311-618B	CHASSIS AY
A-29	236-160A	WINDOW, CASSETTE COVER	D-1	313-216A	CHASSIS
A-30	353-615A	SCREW, DECO	D-2	423N397B	SHAFT TUNING
A-32	353NO25C	SCREW, SPECIAL	D-3	434N031A	ROLLER
A-33	324-472A	HOLDER MIC AY	D-4	423N254A	SHAFT, ROLLER
С	215-536B	CASE, FRONT AY	D-5	434-018A	Roller
C-1	217-308A	CASE FRONT	D-6	432NO38A	PULLEYDIAL
C-2	224-041A	GRILLE, WOOFER	D-7	MPC1536J	SCREW, MPC+2.6x8
C-3	224-043A	GRILLE, tweeter metal	D-8	442-004X	SPRING
C-4	224-042A	GRILLE, SPEAKER TWEETE	D-10	361-608A	POINTER
C-5	251-626F	PLATE, DECORATION	D-11	WEO1800Q	E-RING, WED-3SK5 8K
C-6	241-103A	MARK, GOLD STAR	D-12	542NO23A	CONDENSER MIC EM-80
C-7	562-0500	LUG			PRIMO
C-8	3 <b>5</b> 3NO25G	SCREWSPECIAL	D-13	341N105A	BUSHING MIC
C-9	246-214A	DECORATION LED (A)	D-14	423-296A	SHAFT, BAND SELECT
C-10	246-215A	DECORATION LED (B)	D-15	MPC1830J	SCREW, MPC+3x6
C-11	236-161A	WINDOWSCALE	D-16	3 <b>5</b> 3NO25G	SCREW SPECIAL
C-12	518-623A	METER VUY176-A	D-19	251-627C	PLATE, SCALE
C-13	353-052C	SCREWSPECIAL	D-20	353-052J	SCREW, WPECIAL
C-14	541-139A	SPEAKER 050N06-1350F	D-21	235-005A	BOARD, JACK (DIN)
C-15	353-052C	SCREWSPECIAL	D-22	324-458A	HOLDER, JACK
C-16	541-158B	SPEAKER	D-23	353NO25G	SCREW SPECIAL
C-17	353NO71E	SCREW, SPECIAL	D-24	262NO56A	LOG, GND
C-18	226-612A	DOOR CASSETTE	D-25	353NO25L	SCREW, SPECLAL 3x10
C-19	NHA1800J	NUT, NH1-3 FZMY			FCRM
C-20	423-294A	SHAFT, PULLEY DOOR	D-26	255-091A	HEAT SINK (A)
C-21	444-002A	DAMPER-AIR, KUGAMI	D-27	255-092A	HEAT SINK (B)
		SEIKI (K-104)	D-28	TRQ1836J	SCREW, TRQ+3x8 MSWR3
C-22	423-295A	SHAFT, DAMPER			FZMY
C-23	321-743B	BRACKET DOOR CST	D-29	363-052C	SCREW SPECIAL

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
D-30	321-747A	BRACKET RECS/W	F-13	TRQ1836J	SCREW, TRQ2+3x8 MSWR+
D-31	353NO25C	SCREW SPECIAL			FZMY
D-32	255-092B	HEAT SINK (B)	F-14	321-740A	BRACKET, DECK (B)
D-33	273-238C	KNOIB, SWITCH	F-15	353NO22A	SCREW, SPECIAL
D-34	MPC1830J	SCREW, MPC+4×6	F-16	321-787A	BRACKET, DECK (C)
D-35	354-602F	WASHER	F-17	353NO22A	SCREW, SPECIAL
E	321-748B	BRACKET POWER AY	F-18	321-744A	BRACKET, RECORD
E-2	641-679C	POWER TRANS 220V	F-19	442-657A	SPRING REC PLATE
E-3	353NO71E	SCREW, SPECIAL (M4×10)	F-20	353NO22A	SCREW, SPECIAL
E-4	353-052C	SCREW SPECIAL	F-21		
E-5			F-22	273-655A	KNOB, CST (A)
E-6			F-23	273-656A	KNOB, CST (B)
E-7			G	215-537B	CASE, REAR AY
E-8	577-004A	SOCKET AC-IN	G-1	217-309A	CASE REAR
F	411-029A	MECHANISM DECK AY	G-2	562NO55A	LUG
F-1	412-068B	DECK MECHANISM	G-3	532-007C	ANTENNA ROD
		TN77 M-193	G-4	MAC1845L	SCREW, MAC+3×18FNM
F-1-1	451-145A	BELT, COUNTER (A)	G-5	562-050N	LUG
F-1-2	451-145B	BELT, COUNTER (B)	G-6	353NO25G	SCREW SPECIAL
F-2	251-628A	PLATE, DECO CST	G-7	353NO25G	SCREW SPECIA L
F-3	MPC1522L	SCREW M+2.6FCR	G-8	321-745A	BRACKET HANDLE
F-4	256N261A	PLATE REFLECTION	G-9	353NO25G	SCREW SPECIA L
F-5	321-739A	BRACKET DECK (A)	G-10	261NO89D	HANDLE
F-6	353NO22A	SCREW, SPECIAL	G-11	324-639A	HOLDER, HANDLE
F-7	517-102A	COUNTER SINMEL T3ARS1	G-12	MAC1843L	SCREW, MAC+3×14 FNM
F-8	MPC1830J	SCREW, MPC+3×6	G-13	423-297A	SHAFT, HANDLE
F-9	423-294D	SHAFT, PULLEY DOOR	G-14	423-286A	SHAFT HANDLE HOLDER
F-10	432-609B	PULLEY, COUNTER	G-15	442N261B	SPRING BATTE RY (A)
F-11	WEOO500P	E-Ring D1.5	G-16	442N262A	SPRING BATTERY (B)
F-12	322-144A	SUPPORTER, EJECT LEVER	G-17	563N126A	TERMINAL BATTERY
			+		



# PARTS LIST FOR DECK MECHANISM EXPLODED VIEW

NO.	PARTS NAME	PART NO.	NO.	PARTS NAME	PART NO.
2	CASSETTE GUIDE	99T-0001	60	BRAKE ARM (L) ASS'Y	99T-0022
3	GUIDE PIN	99T-0002	61	BRAKE ARM (R) ASS'Y	99T-0023
4	GUIDE PIN CUSHION	99T-0003	64	COIL ASS'Y	99T-0023
6	SENSING PIECE	99T-0004	66	KICK LEVER	99T-0025
8	REC. SAFETY LEVER	99T-0005	69	SWITCH	
18	PANNEL PRESS PLATE	99T-0006	70	SWITCH	99T-0026
19	HEAD BASE	99T-0007	98	SENSING PLATE	99T-0027
22	R.P. HEAD	99T-0008	104	CAM GEAR	99T-0028
23	E. HEAD	99T-0009	106	BELT	99T-0029
25	PINCH ROLLER ASS'Y	99T-0010	197	PACK HOLD SPRING	99T-0030
26	TAKE UP REEL ASS'Y	99T-0011	109	EJECT LEVER SPRING	99T-0031
27	SUPPLY REEL ASS'Y	99T-0012	111	EJECT LEVER	99T-0032 99T-0033
29	R.F. CLUTCH ASS'Y	99T-0013	304	C TAPPING SCREW 2x5	
37	MAIN BELT	99T-0014	305	C TAPPING SCREW 2x6	99T-0034
38	R.F. BELT	99T-0015	308	CAP SCREW 2x10	99T-0035
39	MOTOR ASS'Y	99T-0016	312	C TAPPING SCREW 2.6x4	99T-0036
43	BUTTON LEVER ASS'Y	99T-0017	319	POLYSLIDER WASHER	99T-0037
46	BUTTON LEVER SPRING	99T-0018	322	POLYSLIDER WASHER	99T-0038
50	FUNCTION LEVER SPRING	99T-0019	326	STEEL BALL 2.0	99T-0039
51	FUNCTION LEVER SPRING	99T-0020	320	OTELE BALL 2.0	99T-0040
55	FUNCTION LEVER STOPPER	99T-0021	Ĭ.		

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